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L17: Entry 2 of 2

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TITLE: Spread spectrum receiver for e.g. mobile communication system - has carrier wave detectors that determine existence of carrier wave based on suppressed unit bit signal, and pair of correlators which suppress each unit bit of I and Q channel signal respectively

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PATENT-ASSIGNEE: NEC CORP (NIDE)

PRIORITY-DATA: 1994JP-0306414 (December 9, 1994)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> JP 08163079 A	June 21, 1996		006	H04J013/00
<input type="checkbox"/> US 5742636 A	April 21, 1998		010	H04B015/00

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 08163079A	December 9, 1994	1994JP-0306414	
US 5742636A	December 11, 1995	1995US-0570691	

INT-CL (IPC): H04 B 7/26; H04 B 15/00; H04 J 13/00

ABSTRACTED-PUB-NO: JP 08163079A

## BASIC-ABSTRACT:

The receiver (21) has a pair of correlators (25i,25q) that suppress each unit bit of an I channel signal and a Q channel signal respectively during reception standby mode. Two carrier wave detectors in a pair of ADCs (24i,24q) determine the existence of a carrier wave based on the signal in which the unit bit is suppressed.

USE/ADVANTAGE - For e.g. car-telephone system, wireless local area network. Reduces power consumption during reception standby mode.

ABSTRACTED-PUB-NO: US 5742636A

## EQUIVALENT-ABSTRACTS:

The receiver (21) has a pair of correlators (25i,25q) that suppress each unit bit of an I channel signal and a Q channel signal respectively during reception standby

mode. Two carrier wave detectors in a pair of ADCs (24i,24q) determine the existence of a carrier wave based on the signal in which the unit bit is suppressed.

USE/ADVANTAGE - For e.g. car-telephone system, wireless local area network. Reduces power consumption during reception standby mode.

CHOSEN-DRAWING: Dwg.1/3 Dwg.3/6

DERWENT-CLASS: W01 W02

EPI-CODES: W01-A06B5A; W01-A06C4; W01-C01D3; W01-C01E5B; W02-K05B3;



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11)Publication number: 08163079

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H04J 13/00  
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(21)Application number: 06306414

(71)Applicant:

NEC CORP

(22)Date of filing: 09.12.1994

(72)Inventor:

FUKUSHI MIKIO

(54) SPREAD SPECTRUM RECEIVER

(57)Abstract:

**PURPOSE:** To reduce power consumption in the reception standby state by activating a correlation device and a carrier sensing circuit by the amount of bits of an A/D converter available of carrier sensing in the reception standby state.

**CONSTITUTION:** A clock signal signals is supplied to I and Q channels of correlation devices 25i, 25q for a time equivalent to  $K(i \geq K \geq 1)$ ,  $L (q \geq L \geq 1)$  bits respectively in the reception standby state. Amplitude calculation of  $J(Idata)^2 + (Qdata)^2$  is conducted to output data subject to inverse spread from the correlation devices 25i, 25q for each chip. A synchronization integration circuit 28 applies synchronization integration to the amplitude for one symbol block and when the maximum synchronization integration value is a threshold value or over, it is regarded as carrier sensing and all digital output bits from A/D converters 25i, 25q are processed by the correlation devices. Thus, this receiver is applied to a mobile communication terminal, in which battery saving is realized.

